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YEARS

This seminar will explore key fatigue and durability challenges across production, storage, transport & use. Experts will cover hydrogen embrittlement, testing and validation hurdles, permeation, & infrastructure issues, highlighting cross-sector barriers & solutions to ensure long-term reliability.

ENGINEERING INTEGRITY SOCIETY SEMINAR: Hydrogen Adoption Across Industries: Materials Challenges & Engineering Solutions

26 March 2026, Cranfield University

PRESENTATIONS

Slowing the Unstoppable – Can we really avoid hydrogen entering materials?
Francesco Fanicchia, Cranfield University

Developing and Validating Test Machines for Hydrogen Applications: Enabling Safe, Reliable Testing Across Sectors & Supply Chains - Vicki Wilkes, Darvick

Cryo-mechanical Testing for Hydrogen Adoption: Challenges in Fusion and Aerospace - Khurram Amjad, UK Atomic Energy Authority

Hydrogen Fueled Internal Combustion Engines for The Machinery & Equipment Sector - Richard Doyle, JCB

Design Methodology for Hydrogen Pressure Systems
Charlie Hutchings, Frazer-Nash Consultancy

Understanding Hydrogen Embrittlement: From Lab-scale Insights to Real-world Applications – Alfredo Zafra, University of Oxford

Materials Challenges for Hydrogen in Aerospace – Louise Gale, Rolls-Royce

Challenges of hydrogen pipeline design - David Baxter, Kent

Decarbonising the Skies: A National Perspective on Hydrogen Challenges and Capabilities - Fran Synnott, Aerospace Technology Institute

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